## Track 1 Decision Documentation Package

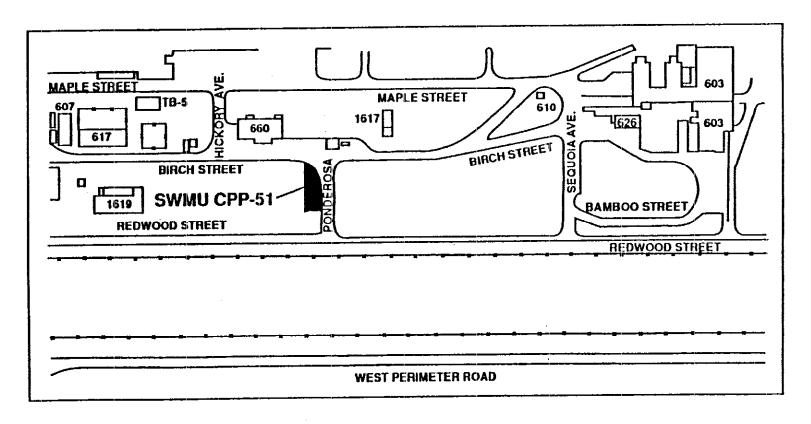
Waste Area Group 3 Operable Unit 3-01

### Site CPP-51

**PCB Staging Area West of CPP-660** 



# Location of SWMU CPP-51



## DECISION DOCUMENTATION PACKAGE COVER SHEET

#### PREPARED IN ACCORDANCE WITH

TRACK 1 SITES:
GUIDANCE FOR ASSESSING
LOW PROBABILITY HAZARD SITES
AT INEL

SITE DESCRIPTION: PCB-STAGING AREA WEST OF CPP-660

SITE ID: CPP-51

OPERABLE UNIT: 3-01

WASTE AREA GROUP: 3

I. SUMMARY - PHYSICAL DESCRIPTION OF THE SITE: During 1985 the area was used as a PCB-Transformer and contaminated soil, debris and concrete staging area from the ICPP Utilities Replacement and Expansion Project. The area is unpaved and is located along the west side of the ICPP facility at the northwest corner of the intersection of Birch Street and Ponderosa Avenue. During the staging of transformers during 1985, two transformers leaked oil onto plastic sheeting. Sampling of the site was accomplished in 1990 to verify that the soil in CPP-51 had not been impacted by PCBs. The area is approximately 100 feet long by 50 feet wide.

- II. SUMMARY QUALITATIVE ASSESSMENT OF RISK: The qualitative risk of the site is predicted by the risk assessment to be medium based on risk to groundwater. However, given the low concentrations of PCBs in the soil, the depth to groundwater, the relative immobility of PCBs in soil and basalt, and the very conservative assumptions used in the Track 1 risk assessment, there is little likelihood that groundwater will be impacted by PCBs. The reliability of the data is high.
- III. SUMMARY CONSEQUENCES OF ERROR: Limited risk due to low PCB concentrations of PCBs being left in the soil may result due to the no further action recommendation.
- IV. SUMMARY OTHER DECISION DRIVERS: The clean-up requirements provided for in the Toxic Substances Control Act (TSCA) 40 CFR 761.125 require remediation of PCBs in Industrial Areas to 25 ppm PCBs by weight in soil. The guidance provided in OWSER Directive 9335.4-01 "Guidance for Remedial Actions at Superfund Sites with PCB Contamination" also requires clean-up at restricted access industrial areas of 25 ppm PCBs by weight in soil. This clean-up requirement is based on health risk assessment criteria using occupational exposure of site workers by soil ingestion and dermal contact as the exposure scenario. Provided the established criteria in TSCA are considered an ARAR for the INEL, the existing soil concentrations can be left in place and no further action is recommended for this site. This ARAR, together with the very conservative assumptions used in performing the Track 1 risk assessment, provides for a reasonable foundation for recommending no further action at this site.

RECOMMENDED ACTION: No Further Action.

SIGNATURES	# PAGES:		DATE:
Prepared By:		DOE WAG Manager:	
Approved By:		Independent Review:	

## DECISION STATEMENT (BY DOE RPM)

page 3

DATE RECD: 1/17/67

DISPOSITION:

Low linde of PEBS present - we further as those requires at the time, ROD will review the unit,

DATE: 4/17/92

# PAGES (DECISION STATEMENT):

NAME: Jenat Lyw

SIGNATURE: <

DATE RECD:

4/9/92

DISPOSITION:

PCB goil results show contamination level below cleanup concerns under PCB Spill Cleanup Policy. Process was to remove x'fners + contaminated goil. No further action needed based on available record

DATE: 6/4/92 # PAGES (DECISION STATEMENT): /
NAME: Wayne Piense SIGNATURE: Adequa Telessi

DE	CISION STATEMENT (BY STATE RPM)	CPP-51	page 5
DATE RECD: 4/9/92			
Disposition:  Based on &  present the se	m vil be u	view of th	
DATE: 1/9/9~	# PAGES (DECISION	ON STATEMENT):	
NAME: Dear J. Nygard	SIGNATURE:	ean J. Vleggar	4

## PROCESS/WASTE WORKSHEET SITE ID CPP-51

Col 1 Processes Associated with this Site	Col 2 Waste Description & Handling Procedures	Col 3 Description & Location of any Artifacts/Structures/Disposal Areas Associated with this Waste or Process	
Process Storage and temporary	Transformers containing between 160 and	Artifact Soil Location CPP-51 Description Possible PCB Contamination	
staging of PCB transformers.	400,000 ppm PCBs in oil were stored or staged in CPP-51.	Artifact Location Description	
		Artifact Location Description	
Process Storage and temporary	Forty Drums of contaminated soil, debris and	Artifact Soil Location CPP-51 Description Possible PCB Contamination	
staging of contaminated PCB contaminated soil, debris and concrete.	concrete were stored temporarily in CPP-51 while awaiting disposal.	Artifact Location Description	
		Artifact Location Description	
Process		Artifact Location Description	
		Artifact Location Description	
		Artifact Location Description	

CONTAMINANT WORKSHEET  SITE ID CPP-51  PROCESS (Col 1) Transformer Storage WASTE (Col 2) PCBs			page 7		
Col 4 What known/potential hazardous substanc- es/constituents are associated with this waste or process?	Col 5 Potential sources associated with this hazardous material	Col 6 Known/estimated concentration of hazardous substances/ constituents	Col 7 Risk based concentration mg/kg	Col 8 Qualitative risk assessment (Hi/Med/Lo)	Col 9 Overall reliability (Hi/Med/Lo)
PCBs	Transformer Oil	≤0.120 ppm	0.049 ppm	Med	Hi
PCBs	Contaminated Soil, Debris	<u>≤</u> 0.120 ppm	0.049 ppm	Med	Hi
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	;				

<sup>1.</sup> Occupational Exposure concentration for risk

			page 8
	QUALITATIVE RISK AND I	RELIABILITY EVALUATION	TABLE
		QUALITATIVE RISK	
	Low	Medium	High
HIGHLY Un- Reliable	screening data	TRACK II	screening data
HIGHLY Reliable	No Action Required *	RI/FS	Interim Action
reliability	LOW concentration resulting in risk < 10°	MEDIUM	MIGH ncentration resulting in risk > 10*
		qualitative risk	

if there exist sufficient data to identify an appropriate remedy

Question 1. What opera	are the waste generation process locations and dates of tion associated with this site?
Block 1 Answer:	
	The site was used as a PCB transformer and PCB contaminated soil, debris and concrete staging area during 1985. Some PCB oil was spilled onto plastic sheeting. The PCB transformers and contaminated materials were ultimately disposed of at a commercial disposal facility (US Pollution Control Inc., Murray, Utah) in late 1985.
	is/are the information source/s? <u>X_HighMedLow</u> (check one) ASONING BEHIND THIS EVALUATION.
Sampling Report a	nd Occurrence Report document the spill.
Block 3 Has this INFORMATION been confirmed? XYes No (check one)  If so, describe the confirmation.	
Sampling Report and Occurrence Report document the spill.	
Block 4 SOURCES OF	INFORMATION (check appropriate box/es & source number from reference list)
No available informate Anecdotal Historical process de Current process data Areal photographs Engineering/site draw Unusual Occurrence Resummary documents Facility SOPs	[]       Documentation about data []         []       Disposal data []         []       Q.A. data []         []       Safety analysis report []         rings []       D&D report []

Question 2. What are the disposal process loc associated with this site?	ations and dates of operation
Block 1 Answer:	
	sformers were stored in the staging heeting beneath two transformers
	••
·	
Block 2 How reliable is/are the information <b>EXPLAIN THE REASONING BEHIND THIS EVAL</b>	-
Sampling report and occurance report document	the spill.
Has this INFORMATION been confirmed? X  IF SO, DESCRIBE THE CONFIRMATION.  Sampling report and occurance report document	· —
Block 4 SOURCES OF INFORMATION (check appropria	te box/es & source number from reference list)
No available information [ ] Anecdotal [ ] Historical process data [ ] Current process data [ ] Areal photographs [ ] Engineering/site drawings [ ] Unusual Occurrence Report [ ] Summary documents [ ] Facility SOPs [ ] OTHER [X]	Analytical data [ ]  Documentation about data [ ]  Disposal data [ ]  Q.A. data [ ]  Safety analysis report [ ]  D&D report [ ]  Initial assessment [ ]  Well data [ ]  Construction data [ ]

Question 3. Is there empirical, circumstantial, or other evidence of migration? If so, what is it?
Block 1 Answer:  There is no evidence of migration from this event.
How reliable is/are the information source/s? X_HighMedLOW (check one)  EXPLAIN THE REASONING BEHIND THIS EVALUATION.  Sampling Report and Occurrence Report document no migration.
Has this INFORMATION been confirmed? X Yes No (check one)  IF SO, DESCRIBE THE CONFIRMATION.  Sampling Report and Occurrence Report document no migration.
No available information

Question 4. Is there evidence that a source exists at this site? If so, list the sources and describe the evidence.
Block 1 Answer:
No. The transformers and contaminated material have been removed and are no longer onsite.
Block 2 How reliable is/are the information source/s? XHigh Med LOW (check one) EXPLAIN THE REASONING BEHIND THIS EVALUATION.
Sampling Report documents low (<1 ppm) PCBs in the soil.
Has this INFORMATION been confirmed? X Yes No (check one)  IF SO, DESCRIBE THE CONFIRMATION.
Sampling Report documents low (<1 ppm) PCBs in the soil.
No available information []

Question 5. Does site operating or disposal histore estimation of the pattern of potential pattern is expected to be a scattering expected minimum size of a significant	contamination? If the gof hot spots, what is the
Block 1 Answer:	
No. Composite sampling has verified per concentrations in the soil staining was apparent on the so concentrations are ubiquitous to	at less than 1 ppm. No oil oil and the low PCB
Block 2 How reliable is/are the information source/s?  EXPLAIN THE REASONING BEHIND THIS EVALUAT	
Sampling Report verifies information.	
Has this INFORMATION been confirmed? $X$ Yes IF SO, DESCRIBE THE CONFIRMATION.	NO (check ane)
Sampling report confirms information.	
Block 4 SOURCES OF INFORMATION (check appropriate box	x/es & source number from reference list)
Anecdotal [] Docum Historical process data [] Dispo Current process data [] Q.A. Areal photographs [] Safet Engineering/site drawings [] D&D r Unusual Occurrence Report [] Initis Summary documents [] Well	y analysis report [ ] eport [ ] al assessment [ ]

What i	te the length, width, and depth of the contaminated region. s the known or estimated volume of the source? If this is an ted volume, explain carefully how the estimate was derived.
Block 1 Answer:	
	The contaminated region is approximately 100 feet long, 50 feet wide and 6 inches deep. This area represents the area of the entire CPP-51 site and the contamination is below 1 ppm PCBs.
	is/are the information source/s? <u>X_HighMedLow</u> (check one) SONING BEHIND THIS EVALUATION.
Area has been samp	led to confirm the contaminated region.
	RMATION been confirmed? X_YesNo (check one) THE CONFIRMATION.
Sampling report co	nfirms information.
Block 4 SOURCES OF  No available information Anecdotal Historical process data Current process data Areal photographs Engineering/site drawing Unusual Occurrence Reposummary documents Facility SOPS OTHER	[ ] Documentation about data [ ] a [ ] Disposal data [ ] a [ ]

substan	the known or estimated quantity of hazardous ce/constituent at this source? If the quantity is an e, explain carefully how the estimate was derived.
Block 1 Answer:	
	18.6 grams, PCBs, based on the below calculation and assuming soil density of 1.7 gm/cc and an average PCB concentration of 0.094 ppm based on Table 4-1 of Sampling Report.
	50 ft x 100 ft x 1 ft x $\frac{1728 \text{in}^3}{1 \text{ft}^3}$ x $\frac{16.38 \text{cm}^3}{1 \text{in}^3}$ x $\frac{1.7 \text{qm}}{\text{cm}^3}$
	x 0.094 ppm = 23 gm PCBs
How reliable is/are the information source/s? X_HighMedLOW (check one) EXPLAIN THE REASONING BEHIND THIS EVALUATION.	
Based on sampling r	eport information.
	MATION been confirmed? X_YesNo (check one)  THE CONFIRMATION.
Sampling information	n confirms calculation.
Block 4 SOURCES OF  No available information Anecdotal Historical process data Current process data Areal photographs Engineering/site drawing Unusual Occurrence Reposummary documents Facility SOPs	

Question 8. Is there evidence that this hazardous substance/constituent is present at the source as it exists today? If so, describe the evidence.	
Block 1 Answer:	
Yes, sampling information confirms that PCBs are present in the soil at CPP-51. All transformers and containerized contaminated materials have been removed.	
	·
	•
How reliable is/are the information source/s? X_HighMedLow (check one) EXPLAIN THE REASONING BEHIND THIS EVALUATION.	
Sampling report confirms presence of PCBs in soil.	
Has this INFORMATION been confirmed? X Yes No (check one)  IF SO, DESCRIBE THE CONFIRMATION.  Sampling report confirms presence of PCBs in soil.	
Block 4 SOURCES OF INFORMATION (check appropriate box/es & source number from reference list)	
No available information [ ] Anecdotal [ ] Historical process data [ ] Current process data [ ] Areal photographs [ ] Engineering/site drawings [ ] Unusual Occurrence Report [X] 1 Summary documents [ ] Facility SOPs [ ] OTHER [X] 2	Analytical data []

#### REFERENCES

- 1. "Report for the Chemical Processing Plant Drilling and Sampling Program at Solid Waste Management Unit CPP-51", Golder and Associates, January 1991.
- 2. EG&G Risk Evaluation, January 1992.